

A Combinatorial Introduction

Instructions:

1. Pair up with someone.
2. Introduce yourselves.
 - a. Name + pronouns
 - b. Where you're from
3. Find a fact that you have in common (Ex: both have a pet dog).
4. Write down the name of the person and the fact.
5. Continue until you meet everyone in the room!! (No repeating facts).

[illegible]

Questions

1. How many unique facts do you have written down? How many unique facts does our entire class have written down in total?
2. How many unique pairs of people are there in our class? Compare your number to your previous answer.
3. Can you write down a formula that gives the number of unique facts for a class of n people?
4. Challenge: What if instead of pairs, we repeated the activity with groups of three? How would your answers change?